

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3172	fructosyltransferase\$1 or fructosyl adj transferase\$1 or \$sucrase	US-PGPUB; USPAT	OR	OFF	2006/12/05 13:53
L2	7955	(lactobacillus or lactic adj acid adj bacteri\$8)	US-PGPUB; USPAT	OR	OFF	2006/12/05 13:54
L3	251	(fructan or levan) near5 (mak\$6 or produc\$8 or synthes\$8)	US-PGPUB; USPAT	OR	OFF	2006/12/05 13:57
L4	47	2 same (1 or 3)	US-PGPUB; USPAT	OR	OFF	2006/12/05 13:58

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:03:15 ON 05 DEC 2006

=> fil .bec,fsta
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.10	2.10

FULL ESTIMATED COST

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS, FSTA' ENTERED AT 15:09:00 ON 05 DEC 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

12 FILES IN THE FILE LIST

=> s fructosyltransferase# or fructosyl transferase# or levansucrase# or
levan(w)sucrase#

FILE 'MEDLINE'

	188	FRUCTOSYLTRANSFERASE#
	268	FRUCTOSYL
	59620	TRANSFERASE#
	20	FRUCTOSYL TRANSFERASE#
		(FRUCTOSYL(W) TRANSFERASE#)
	266	LEVANSUCRASE#
	447	LEVAN
	3165	SUCRASE#
	17	LEVAN(W) SUCRASE#
L1	459	FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
		OR LEVAN(W) SUCRASE#

FILE 'SCISEARCH'

	361	FRUCTOSYLTRANSFERASE#
	366	FRUCTOSYL
	47514	TRANSFERASE#
	107	FRUCTOSYL TRANSFERASE#
		(FRUCTOSYL(W) TRANSFERASE#)
	352	LEVANSUCRASE#
	500	LEVAN
	1990	SUCRASE#
	10	LEVAN(W) SUCRASE#
L2	735	FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
		OR LEVAN(W) SUCRASE#

FILE 'LIFESCI'

	129	FRUCTOSYLTRANSFERASE#
	115	"FRUCTOSYL"
	14962	TRANSFERASE#
	27	FRUCTOSYL TRANSFERASE#
		("FRUCTOSYL"(W) TRANSFERASE#)
	190	LEVANSUCRASE#
	291	LEVAN
	391	SUCRASE#
	8	LEVAN(W) SUCRASE#
L3	323	FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
		OR LEVAN(W) SUCRASE#

FILE 'BIOTECHDS'

	485	FRUCTOSYLTRANSFERASE#
	214	FRUCTOSYL
	4231	TRANSFERASE#
	122	FRUCTOSYL TRANSFERASE#
		(FRUCTOSYL(W) TRANSFERASE#)
	572	LEVANSUCRASE#
	228	LEVAN

108 SUCRASE#
 12 LEVAN (W) SUCRASE#
 L4 742 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
 OR LEVAN (W) SUCRASE#

FILE 'BIOSIS'

379 FRUCTOSYLTRANSFERASE#
 511 FRUCTOSYL
 79761 TRANSFERASE#
 162 FRUCTOSYL TRANSFERASE#
 (FRUCTOSYL (W) TRANSFERASE#)
 334 LEVANSUCRASE#
 811 LEVAN
 3576 SUCRASE#
 94 LEVAN (W) SUCRASE#
 L5 840 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
 OR LEVAN (W) SUCRASE#

FILE 'EMBASE'

158 FRUCTOSYLTRANSFERASE#
 155 "FRUCTOSYL"
 43678 TRANSFERASE#
 11 FRUCTOSYL TRANSFERASE#
 ("FRUCTOSYL" (W) TRANSFERASE#)
 254 LEVANSUCRASE#
 452 LEVAN
 2040 SUCRASE#
 8 LEVAN (W) SUCRASE#
 L6 389 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
 OR LEVAN (W) SUCRASE#

FILE 'HCAPLUS'

962 FRUCTOSYLTRANSFERASE#
 754 FRUCTOSYL
 55901 TRANSFERASE#
 134 FRUCTOSYL TRANSFERASE#
 (FRUCTOSYL (W) TRANSFERASE#)
 716 LEVANSUCRASE#
 1338 LEVAN
 3789 SUCRASE#
 147 LEVAN (W) SUCRASE#
 L7 1565 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
 OR LEVAN (W) SUCRASE#

FILE 'NTIS'

2 FRUCTOSYLTRANSFERASE#
 2 FRUCTOSYL
 1385 TRANSFERASE#
 0 FRUCTOSYL TRANSFERASE#
 (FRUCTOSYL (W) TRANSFERASE#)
 3 LEVANSUCRASE#
 16 LEVAN
 23 SUCRASE#
 0 LEVAN (W) SUCRASE#
 L8 4 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
 OR LEVAN (W) SUCRASE#

FILE 'ESBIOBASE'

167 FRUCTOSYLTRANSFERASE#
 175 FRUCTOSYL
 37141 TRANSFERASE#
 42 FRUCTOSYL TRANSFERASE#
 (FRUCTOSYL (W) TRANSFERASE#)
 156 LEVANSUCRASE#
 196 LEVAN

572 SUCRASE#
5 LEVAN (W) SUCRASE#
L9 345 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
OR LEVAN (W) SUCRASE#

FILE 'BIOTECHNO'

124 FRUCTOSYLTRANSFERASE#
106 FRUCTOSYL
16723 TRANSFERASE#
29 FRUCTOSYL TRANSFERASE#
(FRUCTOSYL (W) TRANSFERASE#)
201 LEVANSUCRASE#
223 LEVAN
493 SUCRASE#
4 LEVAN (W) SUCRASE#
L10 318 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
OR LEVAN (W) SUCRASE#

FILE 'WPIDS'

352 FRUCTOSYLTRANSFERASE#
279 FRUCTOSYL
7276 TRANSFERASE#
146 FRUCTOSYL TRANSFERASE#
(FRUCTOSYL (W) TRANSFERASE#)
403 LEVANSUCRASE#
225 LEVAN
179 SUCRASE#
31 LEVAN (W) SUCRASE#
L11 533 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
OR LEVAN (W) SUCRASE#

FILE 'FSTA'

80 FRUCTOSYLTRANSFERASE#
124 FRUCTOSYL
2571 TRANSFERASE#
36 FRUCTOSYL TRANSFERASE#
(FRUCTOSYL (W) TRANSFERASE#)
118 LEVANSUCRASE#
178 LEVAN
112 SUCRASE#
5 LEVAN (W) SUCRASE#
L12 214 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
OR LEVAN (W) SUCRASE#

TOTAL FOR ALL FILES

L13 6467 FRUCTOSYLTRANSFERASE# OR FRUCTOSYL TRANSFERASE# OR LEVANSUCRASE#
OR LEVAN (W) SUCRASE#

=> s lactobacillus or lactic acid bacteri?

FILE 'MEDLINE'

13824 LACTOBACILLUS
35191 LACTIC
1438303 ACID
761188 BACTERI?
2745 LACTIC ACID BACTERI?
(LACTIC (W) ACID (W) BACTERI?)
L14 14887 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'SCISEARCH'

13324 LACTOBACILLUS
27935 LACTIC
1169234 ACID
375921 BACTERI?
8392 LACTIC ACID BACTERI?
(LACTIC (W) ACID (W) BACTERI?)

L15 17331 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'LIFESCI'

6913 LACTOBACILLUS
8328 "LACTIC"
309336 "ACID"
198513 BACTERI?
3305 LACTIC ACID BACTERI?
("LACTIC" (W) "ACID" (W) BACTERI?)

L16 8687 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'BIOTECHDS'

3085 LACTOBACILLUS
6167 LACTIC
143603 ACID
128380 BACTERI?
3239 LACTIC ACID BACTERI?
(LACTIC (W) ACID (W) BACTERI?)

L17 4242 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'BIOSIS'

18897 LACTOBACILLUS
31824 LACTIC
1286833 ACID
1387042 BACTERI?
6792 LACTIC ACID BACTERI?
(LACTIC (W) ACID (W) BACTERI?)

L18 22481 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'EMBASE'

10846 LACTOBACILLUS
40817 "LACTIC"
1438893 "ACID"
500802 BACTERI?
2810 LACTIC ACID BACTERI?
("LACTIC" (W) "ACID" (W) BACTERI?)

L19 12137 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'HCAPLUS'

24355 LACTOBACILLUS
100720 LACTIC
4252847 ACID
607270 BACTERI?
11476 LACTIC ACID BACTERI?
(LACTIC (W) ACID (W) BACTERI?)

L20 30903 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'NTIS'

117 LACTOBACILLUS
587 LACTIC
44153 ACID
18878 BACTERI?
35 LACTIC ACID BACTERI?
(LACTIC (W) ACID (W) BACTERI?)

L21 134 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'ESBIOBASE'

5324 LACTOBACILLUS
7183 LACTIC
361191 ACID
213669 BACTERI?
2907 LACTIC ACID BACTERI?
(LACTIC (W) ACID (W) BACTERI?)

L22 6827 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'BIOTECHNO'

5010 LACTOBACILLUS
8347 LACTIC
349810 ACID
190625 BACTERI?
2123 LACTIC ACID BACTERI?
(LACTIC(W)ACID(W)BACTERI?)

L23 6064 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'WPIDS'

5370 LACTOBACILLUS
22163 LACTIC
1067260 ACID
120624 BACTERI?
2837 LACTIC ACID BACTERI?
(LACTIC(W)ACID(W)BACTERI?)

L24 7231 LACTOBACILLUS OR LACTIC ACID BACTERI?

FILE 'FSTA'

10819 LACTOBACILLUS
16788 LACTIC
125602 ACID
68224 BACTERI?
7758 LACTIC ACID BACTERI?
(LACTIC(W)ACID(W)BACTERI?)

L25 15460 LACTOBACILLUS OR LACTIC ACID BACTERI?

TOTAL FOR ALL FILES

L26 146384 LACTOBACILLUS OR LACTIC ACID BACTERI?

=> s (fructan or levan) (5a) (mak##### or produc? or synthes?)

FILE 'MEDLINE'

261 FRUCTAN
447 LEVAN
325926 MAK#####
1350938 PRODUC?
523441 SYNTHES?

L27 180 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

FILE 'SCISEARCH'

772 FRUCTAN
500 LEVAN
389770 MAK#####
1923821 PRODUC?
948230 SYNTHES?

L28 348 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

FILE 'LIFESCI'

161 FRUCTAN
291 LEVAN
57744 MAK#####
537827 PRODUC?
146669 SYNTHES?

L29 187 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

FILE 'BIOTECHDS'

112 FRUCTAN
228 LEVAN
13994 MAK#####
231546 PRODUC?
35304 SYNTHES?

L30 180 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

FILE 'BIOSIS'

967 FRUCTAN

811 LEVAN
 212367 MAK#####
 1784928 PRODUC?
 669118 SYNTHES?
 L31 492 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

 FILE 'EMBASE'
 434 FRUCTAN
 452 LEVAN
 298083 MAK#####
 1291315 PRODUC?
 639817 SYNTHES?
 L32 158 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

 FILE 'HCAPLUS'
 1359 FRUCTAN
 1338 LEVAN
 709131 MAK#####
 4381278 PRODUC?
 975983 PRODN
 4852006 PRODUC?
 (PRODUC? OR PRODN)
 1579520 SYNTHES?
 L33 720 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

 FILE 'NTIS'
 3 FRUCTAN
 16 LEVAN
 124660 MAK#####
 375072 PRODUC?
 42988 SYNTHES?
 L34 4 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

 FILE 'ESBIOBASE'
 387 FRUCTAN
 196 LEVAN
 83424 MAK#####
 629745 PRODUC?
 210536 SYNTHES?
 L35 208 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

 FILE 'BIOTECHNO'
 228 FRUCTAN
 223 LEVAN
 34859 MAK#####
 394590 PRODUC?
 170699 SYNTHES?
 L36 136 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

 FILE 'WPIDS'
 198 FRUCTAN
 225 LEVAN
 711907 MAK#####
 2466991 PRODUC?
 149942 SYNTHES?
 L37 81 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

 FILE 'FSTA'
 194 FRUCTAN
 178 LEVAN
 19447 MAK#####
 305434 PRODUC?
 12741 SYNTHES?
 L38 145 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

TOTAL FOR ALL FILES

L39 2839 (FRUCTAN OR LEVAN) (5A) (MAK##### OR PRODUC? OR SYNTHES?)

=> s 126 (10a) (l13 or l39)

FILE 'MEDLINE'

L40 9 L14 (10A) (L1 OR L27)

FILE 'SCISEARCH'

L41 11 L15 (10A) (L2 OR L28)

FILE 'LIFESCI'

L42 9 L16 (10A) (L3 OR L29)

FILE 'BIOTECHDS'

L43 12 L17 (10A) (L4 OR L30)

FILE 'BIOSIS'

L44 14 L18 (10A) (L5 OR L31)

FILE 'EMBASE'

L45 10 L19 (10A) (L6 OR L32)

FILE 'HCAPLUS'

L46 27 L20 (10A) (L7 OR L33)

FILE 'NTIS'

L47 0 L21 (10A) (L8 OR L34)

FILE 'ESBIOBASE'

L48 11 L22 (10A) (L9 OR L35)

FILE 'BIOTECHNO'

L49 4 L23 (10A) (L10 OR L36)

FILE 'WPIDS'

L50 6 L24 (10A) (L11 OR L37)

FILE 'FSTA'

L51 13 L25 (10A) (L12 OR L38)

TOTAL FOR ALL FILES

L52 126 L26 (10A) (L13 OR L39)

=> s 152 not 2002-2006/py

FILE 'MEDLINE'

2948806 2002-2006/PY
(20020000-20069999/PY)

L53 1 L40 NOT 2002-2006/PY

FILE 'SCISEARCH'

5453896 2002-2006/PY
(20020000-20069999/PY)

L54 3 L41 NOT 2002-2006/PY

FILE 'LIFESCI'

525768 2002-2006/PY

L55 3 L42 NOT 2002-2006/PY

FILE 'BIOTECHDS'

127084 2002-2006/PY

L56 4 L43 NOT 2002-2006/PY

FILE 'BIOSIS'

2657605 2002-2006/PY

L57 4 L44 NOT 2002-2006/PY

FILE 'EMBASE'
2581323 2002-2006/PY
L58 3 L45 NOT 2002-2006/PY

FILE 'HCAPLUS'
5622235 2002-2006/PY
L59 5 L46 NOT 2002-2006/PY

FILE 'NTIS'
74577 2002-2006/PY
L60 0 L47 NOT 2002-2006/PY

FILE 'ESBIOBASE'
1534874 2002-2006/PY
L61 3 L48 NOT 2002-2006/PY

FILE 'BIOTECHNO'
244553 2002-2006/PY
L62 3 L49 NOT 2002-2006/PY

FILE 'WPIDS'
4806343 2002-2006/PY
L63 0 L50 NOT 2002-2006/PY

FILE 'FSTA'
127732 2002-2006/PY
L64 3 L51 NOT 2002-2006/PY

TOTAL FOR ALL FILES
L65 32 L52 NOT 2002-2006/PY

=> dup rem l65
PROCESSING COMPLETED FOR L65
L66 9 DUP REM L65 (23 DUPLICATES REMOVED)

=> d tot

L66 ANSWER 1 OF 9 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New enzymes having fructosyltransferase activity (e.g. inulosucrase or
levansucrase), useful for producing useful levans, inulins and
fructo-oligosaccharides from sucrose, which are particularly useful as
prebiotic substrates;
recombinant protein production via plasmid expression in host cell
useful for fructo-oligosaccharide inulin-type or levan-type production
AU VAN GEEL-SCHUTTEN G H; RAHAOUI H; DIJKHUIZEN L; VAN HIJUM S A F T
AN 2002-05167 BIOTECHDS
PI WO 2001090319 29 Nov 2001

L66 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Sucrose Metabolism and Exopolysaccharide Production in Wheat and Rye
Sourdoughs by Lactobacillus sanfranciscensis
SO Journal of Agricultural and Food Chemistry (2001), 49(11), 5194-5200
CODEN: JAFCAU; ISSN: 0021-8561
AU Korakli, Maher; Rossmann, Andreas; Gaenzle, Michael G.; Vogel, Rudi F.
AN 2001:795580 HCAPLUS
DN 136:69034

L66 ANSWER 3 OF 9 MEDLINE on STN DUPLICATE 1
TI Purification of a novel fructosyltransferase from
Lactobacillus reuteri strain 121 and characterization of the
levan produced.
SO FEMS microbiology letters, (2001 Dec 18) Vol. 205, No. 2, pp. 323-8.
Journal code: 7705721. ISSN: 0378-1097.
AU van Hijum S A; Bonting K; van der Maarel M J; Dijkhuizen L

AN 2002003002 MEDLINE

L66 ANSWER 4 OF 9 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 2

TI Exopolysaccharide production by *Lactobacillus reuteri*, involving sucrase
type of enzymes.

SO Mededelingen Faculteit Landbouwkundige en Toegepaste Biologische
Wetenschappen Universiteit Gent, (2000) Vol. 65, No. 3A, pp. 197-201.
print.

AU van Geel-Schutten, G. H. [Reprint author]; van Hijum, S. A. F. T.; Kralj,
S.; Rahaoui, H. [Reprint author]; Leer, R. J. [Reprint author];
Dijkhuizen, L.

AN 2001:93723 BIOSIS

L66 ANSWER 5 OF 9 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 3

TI Biochemical and structural characterization of the glucan and
fructan exopolysaccharides synthesized by the
Lactobacillus reuteri wild-type strain and by mutant strains

SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (JUL 1999) Vol. 65, No. 7, pp.
3008-3014.
ISSN: 0099-2240.

AU Van Geel-Schutten G H; Faber E J; Smit E; Bonting K; Smith M R; Ten Brink
B; Kamerling J P; Vliegenthart J F G; Dijkhuizen L (Reprint)

AN 1999:513373 SCISEARCH

L66 ANSWER 6 OF 9 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Biochemical and structural characterization of the glucan and
fructan exopolysaccharides synthesized by the
Lactobacillus reuteri wild-type strain and by mutant strains;
polysaccharide production

SO Appl.Environ.Microbiol.; (1999) 65, 7, 3008-14
CODEN: AEMIDF ISSN: 0099-2240

AU van Geel-Schutten G H; Faber E J; Smit E; Bonting K; Smith M R; ten Brink
B; Kamerling J P; Vliegenthart J F G; *Dijkhuizen L

AN 1999-10619 BIOTECHDS

L66 ANSWER 7 OF 9 FSTA COPYRIGHT 2006 IFIS on STN

TI Role of palm wine yeasts and bacteria in palm wine aroma.

SO Journal of Food Science and Technology, India, (1999), 36 (4) 301-304, 13
ref.
ISSN: 0022-1155

AU Uzochukwu, S.; Balogh, E.; Tucknot, O. G.; Lewis, M. J.; Ngoddy, P. O.

AN 1999(12):H2437 FSTA

L66 ANSWER 8 OF 9 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 4

TI Screening and characterization of *Lactobacillus* strains producing large
amounts of exopolysaccharides

SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (DEC 1998) Vol. 50, No. 6, pp.
697-703.
ISSN: 0175-7598.

AU van Geel-Schutten G H; Flesch F; ten Brink B; Smith M R; Dijkhuizen L
(Reprint)

AN 1999:35388 SCISEARCH

L66 ANSWER 9 OF 9 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Screening and characterization of *Lactobacillus* strains producing large
amounts of exopolysaccharides;
the effect of the substrate used on glucan and fructan
production by *Lactobacillus reuteri*

SO Appl.Microbiol.Biotechnol.; (1998) 50, 6, 697-703
CODEN: EJABDD ISSN: 0175-7598

AU van Geel-Schutten G H; Flesch F; ten Brink B; Smith M R; *Dijkhuizen L

AN 1999-06335 BIOTECHDS

=> s 126 and (113 or 139)
FILE 'MEDLINE'
L67 17 L14 AND (L1 OR L27)

FILE 'SCISEARCH'
L68 28 L15 AND (L2 OR L28)

FILE 'LIFESCI'
L69 17 L16 AND (L3 OR L29)

FILE 'BIOTECHDS'
L70 18 L17 AND (L4 OR L30)

FILE 'BIOSIS'
L71 29 L18 AND (L5 OR L31)

FILE 'EMBASE'
L72 22 L19 AND (L6 OR L32)

FILE 'HCAPLUS'
L73 43 L20 AND (L7 OR L33)

FILE 'NTIS'
L74 0 L21 AND (L8 OR L34)

FILE 'ESBIOBASE'
L75 17 L22 AND (L9 OR L35)

FILE 'BIOTECHNO'
L76 9 L23 AND (L10 OR L36)

FILE 'WPIDS'
L77 14 L24 AND (L11 OR L37)

FILE 'FSTA'
L78 18 L25 AND (L12 OR L38)

TOTAL FOR ALL FILES
L79 232 L26 AND (L13 OR L39)

=> s 179 not 2002-2006/py
FILE 'MEDLINE'
2948806 2002-2006/PY
(20020000-20069999/PY)
L80 2 L67 NOT 2002-2006/PY

FILE 'SCISEARCH'
5453896 2002-2006/PY
(20020000-20069999/PY)
L81 6 L68 NOT 2002-2006/PY

FILE 'LIFESCI'
525768 2002-2006/PY
L82 7 L69 NOT 2002-2006/PY

FILE 'BIOTECHDS'
127084 2002-2006/PY
L83 8 L70 NOT 2002-2006/PY

FILE 'BIOSIS'
2657605 2002-2006/PY
L84 9 L71 NOT 2002-2006/PY

FILE 'EMBASE'
2581323 2002-2006/PY
L85 8 L72 NOT 2002-2006/PY

FILE 'HCAPLUS'
5622235 2002-2006/PY
L86 13 L73 NOT 2002-2006/PY

FILE 'NTIS'
74577 2002-2006/PY
L87 0 L74 NOT 2002-2006/PY

FILE 'ESBIOBASE'
1534874 2002-2006/PY
L88 5 L75 NOT 2002-2006/PY

FILE 'BIOTECHNO'
244553 2002-2006/PY
L89 7 L76 NOT 2002-2006/PY

FILE 'WPIDS'
4806343 2002-2006/PY
L90 7 L77 NOT 2002-2006/PY

FILE 'FSTA'
127732 2002-2006/PY
L91 4 L78 NOT 2002-2006/PY

TOTAL FOR ALL FILES
L92 76 L79 NOT 2002-2006/PY

=> dup rem l92
PROCESSING COMPLETED FOR L92
L93 34 DUP REM L92 (42 DUPLICATES REMOVED)

=> d tot

L93 ANSWER 1 OF 34 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New enzymes having fructosyltransferase activity (e.g.
inulosucrase or levansucrase), useful for producing useful
levans, inulins and fructo-oligosaccharides from sucrose, which are
particularly useful as prebiotic substrates;
recombinant protein production via plasmid expression in host cell
useful for fructo-oligosaccharide inulin-type or levan-type
production
AU VAN GEEL-SCHUTTEN G H; RAHAOUI H; DIJKHUIZEN L; VAN HIJUM S A F T
AN 2002-05167 BIOTECHDS
PI WO 2001090319 29 Nov 2001

L93 ANSWER 2 OF 34 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Sucrose Metabolism and Exopolysaccharide Production in Wheat and Rye
Sourdoughs by Lactobacillus sanfranciscensis
SO Journal of Agricultural and Food Chemistry (2001), 49(11), 5194-5200
CODEN: JAFCAU; ISSN: 0021-8561
AU Korakli, Maher; Rossmann, Andreas; Gaenzle, Michael G.; Vogel, Rudi F.
AN 2001:795580 HCAPLUS
DN 136:69034

L93 ANSWER 3 OF 34 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 1
TI Homopolysaccharides from lactic acid bacteria
SO INTERNATIONAL DAIRY JOURNAL, (2001) Vol. 11, No. 9, Sp. iss. SI, pp.
675-685.
ISSN: 0958-6946.
AU Monsan P (Reprint); Bozonnet S; Albenne C; Joucla G; Willemot R M;

Remaud-Simeon M

AN 2001:849829 SCISEARCH

L93 ANSWER 4 OF 34 MEDLINE on STN DUPLICATE 2
TI Purification of a novel fructosyltransferase from
Lactobacillus reuteri strain 121 and characterization of the
levan produced.
SO FEMS microbiology letters, (2001 Dec 18) Vol. 205, No. 2, pp. 323-8.
Journal code: 7705721. ISSN: 0378-1097.
AU van Hijum S A; Bonting K; van der Maarel M J; Dijkhuizen L
AN 2002003002 MEDLINE

L93 ANSWER 5 OF 34 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI Molecular structure of the Lactobacillus plantarum sucrose
utilization locus: Comparison with Pediococcus pentosaceus
SO MOLECULAR BIOLOGY, (JAN-FEB 2001) Vol. 35, No. 1, pp. 15-22.
ISSN: 0026-8933.
AU Naumoff D G (Reprint); Livshits V A
AN 2001:245117 SCISEARCH

L93 ANSWER 6 OF 34 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 3
TI Exopolysaccharide production by Lactobacillus reuteri, involving
sucrase type of enzymes.
SO Mededelingen Faculteit Landbouwkundige en Toegepaste Biologische
Wetenschappen Universiteit Gent, (2000) Vol. 65, No. 3A, pp. 197-201.
print.
AU van Geel-Schutten, G. H. [Reprint author]; van Hijum, S. A. F. T.; Kralj,
S.; Rahaoui, H. [Reprint author]; Leer, R. J. [Reprint author];
Dijkhuizen, L.
AN 2001:93723 BIOSIS

L93 ANSWER 7 OF 34 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 4
TI Biochemical and structural characterization of the glucan and
fructan exopolysaccharides synthesized by the
Lactobacillus reuteri wild-type strain and by mutant strains
SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (JUL 1999) Vol. 65, No. 7, pp.
3008-3014.
ISSN: 0099-2240.
AU Van Geel-Schutten G H; Faber E J; Smit E; Bonting K; Smith M R; Ten Brink
B; Kamerling J P; Vliegenthart J F G; Dijkhuizen L (Reprint)
AN 1999:513373 SCISEARCH

L93 ANSWER 8 OF 34 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Biochemical and structural characterization of the glucan and
fructan exopolysaccharides synthesized by the
Lactobacillus reuteri wild-type strain and by mutant strains;
polysaccharide production
SO Appl.Environ.Microbiol.; (1999) 65, 7, 3008-14
CODEN: AEMIDF ISSN: 0099-2240
AU van Geel-Schutten G H; Faber E J; Smit E; Bonting K; Smith M R; ten Brink
B; Kamerling J P; Vliegenthart J F G; *Dijkhuizen L
AN 1999-10619 BIOTECHDS

L93 ANSWER 9 OF 34 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
reserved on STN DUPLICATE 5
TI Purification and immobilization of fructosyl transferase
for production of fructo-oligosaccharide(s) from sucrose.
SO Indian Journal of Experimental Biology, (1999) Vol. 37, No. 8, pp.
830-834.
Refs: 16
ISSN: 0019-5189 CODEN: IJEBA6
AU Patil V.B.; Patil N.B.

AN 1999274169 EMBASE

L93 ANSWER 10 OF 34 FSTA COPYRIGHT 2006 IFIS on STN
 TI Role of palm wine yeasts and bacteria in palm wine aroma.
 SO Journal of Food Science and Technology, India, (1999), 36 (4) 301-304, 13
 ref.
 ISSN: 0022-1155
 AU Uzochukwu, S.; Balogh, E.; Tucknot, O. G.; Lewis, M. J.; Ngoddy, P. O.
 AN 1999(12):H2437 FSTA

L93 ANSWER 11 OF 34 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
 reserved on STN DUPLICATE 6
 TI In vitro digestibility and fermentability of levan and its
 hypocholesterolemic effects in rats.
 SO Journal of Nutritional Biochemistry, (1999) Vol. 10, No. 1, pp. 13-18. .
 Refs: 35
 ISSN: 0955-2863 CODEN: JNBIEL
 AU Yamamoto Y.; Takahashi Y.; Kawano M.; Iizuka M.; Matsumoto T.; Saeki S.;
 Yamaguchi H.
 AN 1999050080 EMBASE

L93 ANSWER 12 OF 34 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
 STN DUPLICATE 7
 TI Screening and characterization of Lactobacillus strains
 producing large amounts of exopolysaccharides
 SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (DEC 1998) Vol. 50, No. 6, pp.
 697-703.
 ISSN: 0175-7598.
 AU van Geel-Schutten G H; Flesch F; ten Brink B; Smith M R; Dijkhuizen L
 (Reprint)
 AN 1999:35388 SCISEARCH

L93 ANSWER 13 OF 34 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Screening and characterization of Lactobacillus strains
 producing large amounts of exopolysaccharides;
 the effect of the substrate used on glucan and fructan
 production by Lactobacillus reuteri
 SO Appl.Microbiol.Biotechnol.; (1998) 50, 6, 697-703
 CODEN: EJABDD ISSN: 0175-7598
 AU van Geel-Schutten G H; Flesch F; ten Brink B; Smith M R; *Dijkhuizen L
 AN 1999-06335 BIOTECHDS

L93 ANSWER 14 OF 34 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
 reserved on STN DUPLICATE 8
 TI Enhanced production of fructosyltransferase and
 glucosyltransferase by substrate-feeding cultures of Aureobasidium
 pullulans.
 SO Journal of Fermentation and Bioengineering, (1997) Vol. 84, No. 3, pp.
 261-263. .
 Refs: 18
 ISSN: 0922-338X CODEN: JFBIEX
 AU Jong Won Yun; Dong Hyun Kim; Seung Koo Song
 AN 97328535 EMBASE

L93 ANSWER 15 OF 34 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
 STN DUPLICATE 9
 TI Purification and substrate specificity of an extracellular
 fructanhydrolase from Lactobacillus paracasei ssp paracasei P
 4134
 SO NEW PHYTOLOGIST, (MAY 1997) Vol. 136, No. 1, pp. 89-96.
 ISSN: 0028-646X.
 AU Muller M (Reprint); Seyfarth W
 AN 1997:447962 SCISEARCH

L93 ANSWER 16 OF 34 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Liquid food materials which retain original flavour - contain fructo-oligosaccharide(s), and is obtd. using agricultural production containing

sucrose

PI JP 08173109 A 19960709 (199637)* JA 15[6] A23L002-02
JP 2852206 B2 19990127 (199909) JA 15 A23L002-02
IN BABA N; FUJII H; FURUTA M; MORIYAMA H; OTA N; SUENAGA H; YAMAGUCHI T; YAMASHITA S

L93 ANSWER 17 OF 34 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Production of fructosyl-trehalose;
using *Aspergillus sydowii* producing fructosyltransferase

AN 1995-01493 BIOTECHDS

PI JP 06284894 11 Oct 1994

L93 ANSWER 18 OF 34 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI New oligosaccharide sweetener and its production;
by using *Rahnella aquatilis* levansucrase

AN 1992-09317 BIOTECHDS

PI JP 04103593 6 Apr 1992

L93 ANSWER 19 OF 34 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Powder with a high lacto:sucrose content - prepared by enzyme treatment of solution containing sucrose and lactose, removing other saccharide, and spray drying

PI EP 447125 A 19910918 (199138)* EN 20[2]

R: DE FR GB NL

AU 9172731 A 19910912 (199144) EN

US 5130239 A 19920714 (199231) EN 12[1] C12P019-18

JP 04281795 A 19921007 (199247) JA 12[2] C12P019-18

AU 641732 B 19930930 (199347) EN C12P019-18

US 5296473 A 19940322 (199411) EN 12[2] A61K031-70

EP 447125 B1 19950719 (199533) EN 21[2] C12P019-18

R: DE FR GB NL

DE 69111271 E 19950824 (199539) DE C12P019-18

JP 10057092 A 19980303 (199819)# JA 11[2] C12P019-18

JP 2000041694 A 20000215 (200019) JA 10 C12P019-18

KR 161531 B1 19981116 (200030) KO C12P019-00

JP 3134229 B2 20010213 (200111) JA 12 C12P019-18

IN FUJITA K; FUJITA T; HARA K; MIYAKE T; SAKAI S; TSUNETOMI Y; YAMASHITA M

L93 ANSWER 20 OF 34 MEDLINE on STN

TI The influence of sucralose on bacterial metabolism.

SO Journal of dental research, (1990 Aug) Vol. 69, No. 8, pp. 1480-4.

Journal code: 0354343. ISSN: 0022-0345.

AU Young D A; Bowen W H

AN 90347112 MEDLINE

L93 ANSWER 21 OF 34 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Transformed lactic acid bacterium produced
by electroporation;
producing a silage probiotic compound

AN 1989-06482 BIOTECHDS

PI WO 8901970 9 Mar 1989

L93 ANSWER 22 OF 34 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Lactose-based oligosaccharides

SO Kemia - Kemi (1988), 15(3), 218-22

CODEN: KMKMAA; ISSN: 0355-1628

AU Hartikainen, Marianne; Harju, Matti; Heikonen, Matti; Linko, Pekka

AN 1988:471892 HCAPLUS

DN 109:71892

L93 ANSWER 23 OF 34 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Lactobacillus bifidus increase accelerators, useful for foods -
containing saccharide(s), aldo-pyranose or sugar alcohol bonded with 1-3
molecules of fructose

PI JP 62207286 A 19870911 (198742)* JA 10[0]

IN HIDAKA H; HIRAYAMA M; YAMAMOTO T

L93 ANSWER 24 OF 34 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Culture liquor containing fructo-oligosaccharide and beta-1,3-1,6-glucane -
prepared by culturing yeast of aureobasidium in liquid culture medium
containing

saccharose rice bran vitamin(s) C and E

PI JP 61146192 A 19860703 (198633)* JA 8

JP 05004063 B 19930119 (199306) JA 9 A23L002-00

IN SHINOHARA S

L93 ANSWER 25 OF 34 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 11

TI Selectivity and efficiency of utilization of galactosyl-oligosaccharides
by bifidobacteria.

SO CHEM. PHARM. BULL. (TOKYO) ., (1985) vol. 33, no. 2, pp. 710-714.

AU Minami, Y.; Yazawa, K.; Nakamura, K.; Tamura, Z.

AN 85:10500 LIFESCI

L93 ANSWER 26 OF 34 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Effects of sodium and potassium ions on the characteristics of oral
bacteria

SO Recent Adv. Streptococci Streptococcal Dis., Proc. Lancefield Int. Symp.
Streptococci Streptococcal Dis., 9th (1985), Meeting Date 1984, 105-6.
Editor(s): Kimura, Yoshitami; Kotani, Shozo; Shiokawa, Yuichi. Publisher:
Reedbooks, Bracknell, UK.
CODEN: 55BSAN

AU Knox, K. W.; Forester, H.; Jacques, N. A.; Wicken, A. J.; Fitzgerald, R.
J.

AN 1986:438870 HCAPLUS

DN 105:38870

L93 ANSWER 27 OF 34 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI A compound which accelerates the growth of Lactobacillus
bifidus;
preparation from sucrose and fructose using fructosyl-
transferase; use in treatment of intestinal disorder in human
baby

AN 1984-02631 BIOTECHDS

PI JP 58201980 25 Nov 1983

L93 ANSWER 28 OF 34 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 13

TI Selectivity of utilization of galactosyl-oligosaccharides by
Bifidobacteria.

SO CHEM. PHARM. BULL. (TOKYO) ., (1983) vol. 31, no. 5, pp. 1688-1691.

AU Minami, Y.; Yazawa, K.; Tamura, Z.; Tanaka, T.; Yamamoto, T.

AN 83:56498 LIFESCI

L93 ANSWER 29 OF 34 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Microbial preparation of water soluble polysaccharide - by cultivating
microorganism of spore-forming lactic acid
bacteria in presence of sucrose

PI JP 55037189 A 19800315 (198017)* JA

JP 60044918 B 19851005 (198544) JA

IN AMAMIYA Y; NAKAYAMA D

L93 ANSWER 30 OF 34 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Polysaccharide formation by spore-bearing lactic acid

bacteria

SO Journal of General and Applied Microbiology (1980), 26(2), 159-66
 CODEN: JGAMA9; ISSN: 0022-1260

AU Amemiya, Yumiko; Nakayama, Ooki

AN 1981:530938 HCAPLUS

DN 95:130938

L93 ANSWER 31 OF 34 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN

TI LACTOBACILLUS-HORDNIAE NEW-SPECIES FROM THE LEAFHOPPER
 HORDNIA-CIRCELLATA.

SO International Journal of Systematic Bacteriology, (1977) Vol. 27, No. 4,
 pp. 362-370.
 CODEN: IJSBA8. ISSN: 0020-7713.

AU LATORRE-GUZMAN B A [Reprint author]; KADO C I; KUNKEE R E

AN 1978:144213 BIOSIS

L93 ANSWER 32 OF 34 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
 reserved on STN

TI Effects of sodium trimetaphosphate supplementation of a high sucrose diet
 on the microbial and biochemical composition of four day plaque and on
 urine calcium and phosphorus levels.

SO Journal of Dental Research, (1976) Vol. 55, No. 5, pp. 787-796. .
 CODEN: JDREAF

AU Dennis D.A.; Gawronski T.H.; Cressey D.E.; Folke L.E.A.

AN 77173020 EMBASE

L93 ANSWER 33 OF 34 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
 reserved on STN

TI Variations in microbial and biochemical components of four day plaque
 during a four week controlled diet period.

SO Journal of Dental Research, (1975) Vol. 54, No. 4, pp. 716-722. .
 CODEN: JDREAF

AU Dennis D.A.; Gawronski T.H.; Sudo S.Z.; et al.

AN 76147248 EMBASE

L93 ANSWER 34 OF 34 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Contribution of plaque polysaccharides to growth of cariogenic
 microorganisms

SO Archives of Oral Biology (1971), 16(8), 855-62
 CODEN: AOBIA8; ISSN: 0003-9969

AU Parker, R. B.; Creamer, H. R.

AN 1971:506411 HCAPLUS

DN 75:106411

=> d ab 3,4,9,16,22,27,29-31

L93 ANSWER 3 OF 34 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 DUPLICATE 1

AB In addition to heteropolysaccharides of complex structure, lactic
 bacteria produce a variety of homopolysaccharides containing only either
 D-fructose or D-glucose. These fructans and glucans have a common feature
 in being synthesized by extracellular transglycosylases (glycansucrases)
 using sucrose as glycosyl donor. The energy of the osidic bond of sucrose
 enables the efficient transfer of a D-fructosyl Or D-glucosyl residue via
 the formation of a covalent glycosyl-enzyme intermediate. In addition to
 the synthesis of high molecular weight homopolysaccharides, glycansucrases
 generally catalyse the synthesis of low molecular weight oligosaccharides
 or glycoconjugates when efficient acceptors, like maltose, are added to
 the reaction medium. While the enzymatic synthesis of fructans
 (levan and inulin) is poorly documented at the molecular level,
 the field of Streptococcus and Leuconostoc glucansucrases
 (glucosyltransferases and dextransucrases) has been well studied, both at
 the mechanistic and gene structure levels. The nutritional applications

of the corresponding polysaccharides and oligosaccharides account for this increasing interest. (C) 2001 Elsevier Science Ltd. All rights reserved.

- L93 ANSWER 4 OF 34 MEDLINE on STN DUPLICATE 2
AB Fructosyltransferase (FTF) enzymes have been characterized from various Gram-positive bacteria, but not from *Lactobacillus* sp. In a screening of 182 lactobacilli for polysaccharide production only one strain, *Lactobacillus reuteri* strain 121, was found to produce a fructan being a levan. Here we report the first-time identification and biochemical characterization of a *Lactobacillus* FTF enzyme. When incubated with sucrose the enzyme produced a levan that is identical to that produced by *Lb. reuteri* strain 121 cells.
- L93 ANSWER 9 OF 34 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN DUPLICATE 5
AB A protocol for commercial production of a non digestible sweetener, fructo-oligosaccharide(s) from sucrose has been developed. The extracellular enzyme fructosyl transferase was isolated aged purified from *Aureobasidium pullulans*. The enzyme was covalently immobilized on CNBr activated agarose for its economical viability and for continuous use.
- L93 ANSWER 16 OF 34 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
AB JP 08173109 A UPAB: 20050512
Preparation of liquid food materials containing fructooligosaccharides uses an agricultural production containing sucrose or its precursor as raw material. An enzyme agent containing a fructosyl transferase is acted on the raw material to form fructooligosaccharides comprising sucrose bonded with 102 fructose molecules. Pref. the final fructooligosaccharides to sucrose ratio is upto 1.0. Pref. the transferase is immobilised onto crosslinked porous silica beads.
Also claimed is pref. of liquid food materials containing gluconic acid using
an agricultural prod. containing glucose or its precursor as raw material. An enzyme agent containing a glucose oxidase and a catalase is acted on the raw material to form gluconic acid.
and Also claimed to preparation of liquid food materials containing gluconic acid fructooligosaccharides using an agricultural production containing glucose or a glucose precursor and sucrose or a sucrose precursor. An enzyme agent containing a glucose oxidase, a catalase and a fructosyl transferase is acted on the raw material.
PREFERRED MATERIALS - Pref. the transferase is obtd. by culture of *aspergillus niger* IAM2020 in a medium without sucrose. Pref. the raw material is the juice of carrots or the squeezed juice of sugar cane. Pref. the glucose-containing raw material is a squeezed juice of fruits.
ADVANTAGE - The materials have increased sourness and reduced sweetness and activity for growing *Lactobacillus bifidus*.
- L93 ANSWER 22 OF 34 HCAPLUS COPYRIGHT 2006 ACS on STN
AB A review with 31 refs. The lactose of milk and whey is a useful raw material for biotechnol. processes. During the enzymic hydrolysis of lactose, oligosaccharides other than glucose and galactose are formed, either as intermediate products or during a transfer reaction in which the enzyme transfers the glycone group of the substrate to a sugar acceptor. The β -galactosidase from *Aspergillus oryzae* is often used to produce oligosaccharides from lactose. The main trisaccharide formed is galactosyllactose. Various oligosaccharides can also be produced by the action of a glycosidase on sucrose, polysaccharides or a mixture of different sugars. Fructo-oligosaccharides, for example, are produced through the action of fructosyltransferase on sucrose. Lactose-based oligosaccharides find particular use in promoting the growth of lactic acid bacteria in the lower parts of the intestine. Oligosaccharides may also be used to alter the phys.

and chemical properties of foods. Thus, the production and properties of oligosaccharides are important in the present research on carbohydrate chemical

L93 ANSWER 27 OF 34 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB Fructo-oligosaccharide, composed of 1 mole of sucrose and 1-4 moles of fructose, is prepared using fructosyl-transferase. The enzyme can be obtained from such microorganisms as *Aspergillus*, *Penicillium*, *Fusarium*, *Gloeosporium*, *Aureobasidium*, *Saccharomyces*, *Rhodotorula*, *Pichia*, *Hansenula* and *Candida* spp. The microorganism is incubated in a culture medium containing sucrose, peptone, meat extract and inorganic nutrients at 25-30 deg for 24-96 hr, and the enzyme is collected from the culture broth or the mycelia. (I) Accelerates the growth of *Lactobacillus bifidus* which is known to exist in the intestinal organs of human babies. The microorganism prevents the formation of toxic amines and inhibits the growth of pathogenic bacteria. (5pp)

L93 ANSWER 29 OF 34 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
AB JP 55037189 A UPAB: 20050418
Preparation of polysaccharides comprising water soluble fructan or its hydrolysate comprises cultivating a microorganism belonging to spore-forming lactic acid bacteria having the optimum growth temperature at medium temps. (≤ 45 degrees C) and capable of producing water soluble fructan (e.g. *Bacillus laevolacticus* M-4, ATCC 23549, *B. laevolactcus* M-1, ATCC 23493 or *B. laevolacticus* M-91, FERM-P 544) in a medium containing 1-10 w/v% (pref. 2-4 w/v%) of sucrose as a sole carbon source an, in addition, nitrogen sources, inorganic salts and trace elements at 20-40 degrees C (pref. about 30 degrees C) at pH 4-8 in a settled culture or with slight aeration, producing and accumulating the water soluble polymers solely consisting of fructose having a mol. weight of 20,000,000 alone or together with completely water insoluble (polysaccharides (glucan), if desired hydrolyzing the reamining sol liquid, and purifying the prod. The water soluble polysaccharides and their hydrolysates exhibit dextran-like properties and are useful as plasma substitute and also exhibit anticancer activities.

L93 ANSWER 30 OF 34 HCAPLUS COPYRIGHT 2006 ACS on STN
AB A small amount of H₂O-soluble fructan [9037-90-5] was formed from sucrose by 71 strains of *Bacillus laevolacticus* and a few strains of *Sporolactobacillus inulinus*. A gelatinous mass of H₂O-insol. glucan [9012-72-0] and fructan was formed from sucrose by several strains of *B. laevolacticus*. Polysaccharide formation was not observed in such groups of spore-bearing lactic acid bacteria as *Bacillus coagulans*, *Bacillus racemilacticus*, and racemic lactic acid-producing *Sporolactobacillus*. Aeration was not needed for the formation of either fructan or glucan. The yield of glucan was $\leq 25\%$ from sucrose and 2% from yeast extract-peptone broth with 8% sucrose. Glucan was solubilized in 0.1N H₂SO₄ by heating at 100° for 20 min, and the glucan was partially hydrolyzed by dextranase. The mol. wts. of soluble glucan and fructan were 6.4×10^5 and $> 2 \times 10^7$, resp. The antitumor activity of both soluble glucan and fructan against mouse sarcoma 180 was .apprx.60%.

L93 ANSWER 31 OF 34 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AB A gram-positive, rod-shaped bacterium, originally thought by Auger (1974) to be the agent of Pierce's disease of grapevines, is commonly associated with *H. circellata*, 1 of the leafhopper vectors of the disease. The bacterium has the following colonial and cellular characteristics: smooth, glistening white, or chalky colonies, 0.4-0.5 mm in diameter with entire margins; gram positive becoming gram variable after 5 days in culture; nonmotile and nonsporeforming; grows from 15-37° C with an optimum of 28-30° C and no growth at 9 or 45° C; optimum growth

occurs at pH 6.5, with growth observed at pH 4.5 and pH 9.0. The bacterium does not survive after 5-7 days of growth and must be maintained on fresh medium. It is rod-shaped (0.6 by 1.5 to 2.0 μm), growing in short chains of 3-4 cells each, and possesses mesosomes and a cell wall of uniform thickness (28-35 nm) that consists of an electron-dense outer layer and an inner layer resembling unit-membrane structure. The organism is a facultative anaerobe which reacts negatively in tests for cytochrome oxidase, catalase, gelatinase, urease, tryptophanase, and nitrate and disulfide reductase activities. No dextran or levan is produced from sucrose. It produces L-(+)-lactic acid but not D-(-)-lactic acid from glucose and sucrose fermentation, acetylmethylcarbinol, or arginine deaminase. Glucose, sucrose, galactose, maltose, fructose, trehalose, salicin, inulin, and cellobiose, but not gluconate, lactose mannose, mannitol, sorbitol, melibiose, or raffinose, were utilized as C sources. Its chromosome has an average guanine-plus-cytosine content of 32.75 mol%. Based on these features, the bacterium appears to be a hitherto unrecognized species of the genus *Lactobacillus*, for which the name *L. hordniae* sp. nov. is proposed. The type strain is HC-1 (= ATCC 29071).

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ENTRY	SESSION

FULL ESTIMATED COST

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34754 WO/PC

31183 PRY<=2001

(PRY<=2001)

127013 PY=>2002

(PY=>2002)

L94 1 L70 AND WO/PC AND PRY<=2001 AND PY=>2002

FILE 'HCAPLUS'

304990 WO/PC

692276 PRY<=2001

5293102 PY=>2002

L95 1 L73 AND WO/PC AND PRY<=2001 AND PY=>2002

FILE 'WPIDS'

582349 WO/PC
1586517 PRY<=2001
3876154 PY=>2002

.(PY=>2002)

L96 2 L77 AND WO/PC AND PRY<=2001 AND PY=>2002

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PROCESSING COMPLETED FOR L97

L98 3 DUP REM L97 (1 DUPLICATE REMOVED)

=> d tot

L98 ANSWER 1 OF 3 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Isolated and purified strain of Lactobacillus sanfranciscensis
for preparation of human or pet food product or cosmetic
composition, produces levan;
lactic acid bacterium fermentation for
levan production useful as a probiotic
AU VINCENT S; BRANDT M; CAVADINI C; HAMMES W P; NEESER J; WALDBUESSER S
AN 2002-18465 BIOTECHDS
PI WO 2002050311 27 Jun 2002

L98 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Non-digestible sugar-coated products and process
SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2
IN Miller, Guy W.
AN 2002:832656 HCAPLUS
DN 137:329466

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002085415	A1	20021031	WO 2002-US12323	20020417 <--
WO 2002085415	B1	20030912		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2004091537	A1	20040513	US 2003-686129	20031014 <--

L98 ANSWER 3 OF 3 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI New enzymes having fructosyltransferase activity (e.g. inulosucrase or levansucrase), useful for producing useful levans, inulins and fructo-oligosaccharides from sucrose, which are particularly useful as prebiotic substrates

PI WO 2001090319 A2 20011129 (200215)* EN 54[5] C12N009-00 <--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AU 2001060791 A 20011203 (200221) EN
US 20020127681 A1 20020912 (200262) EN C12P019-04 <--
EP 1283888 A2 20030219 (200321) EN C12N015-54 <--

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI TR

US 6635460	B1 20031021 (200370)	EN	C12N009-10	<--
US 6730502	B2 20040504 (200430)	EN	C12N009-10	<--
US 20040185537	A1 20040923 (200463)	EN	C12P019-04	<--

IN DIJKHUIZEN L; RAHAOUI H; VAN GEEL-SCHUTTEN G H; VAN HIJUM S A F T

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
19.01	248.79

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-1.50

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STN INTERNATIONAL LOGOFF AT 15:39:44 ON 05 DEC 2006